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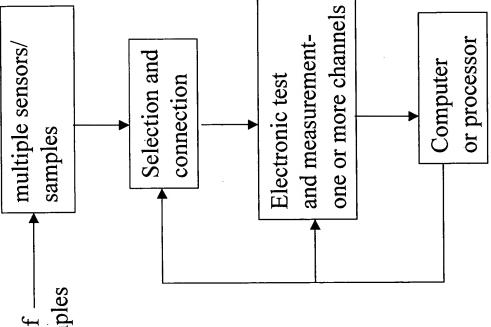
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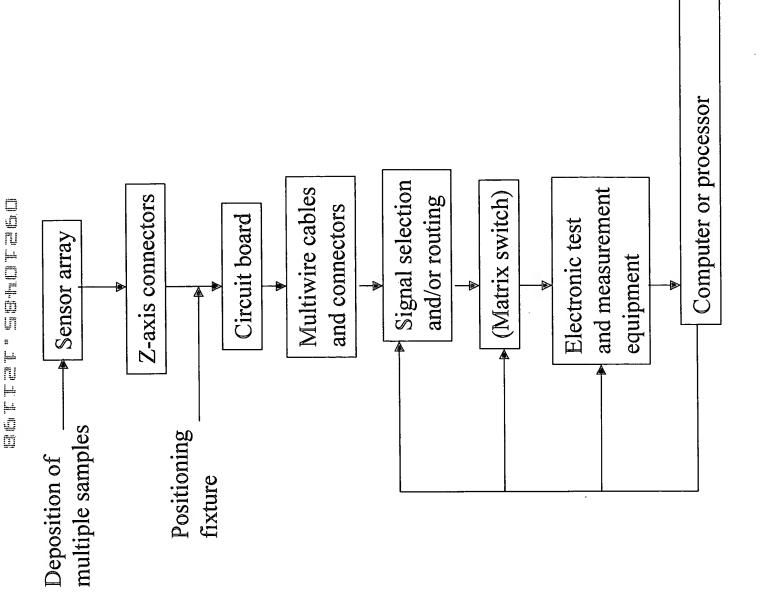
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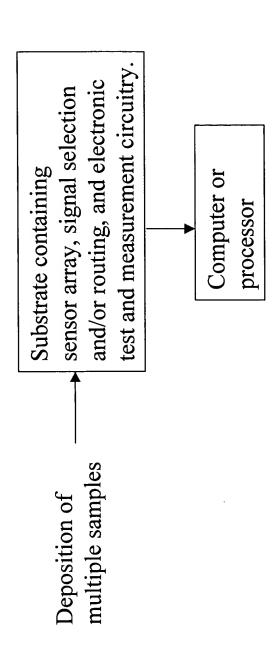
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Generic system concept





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FIG 2A

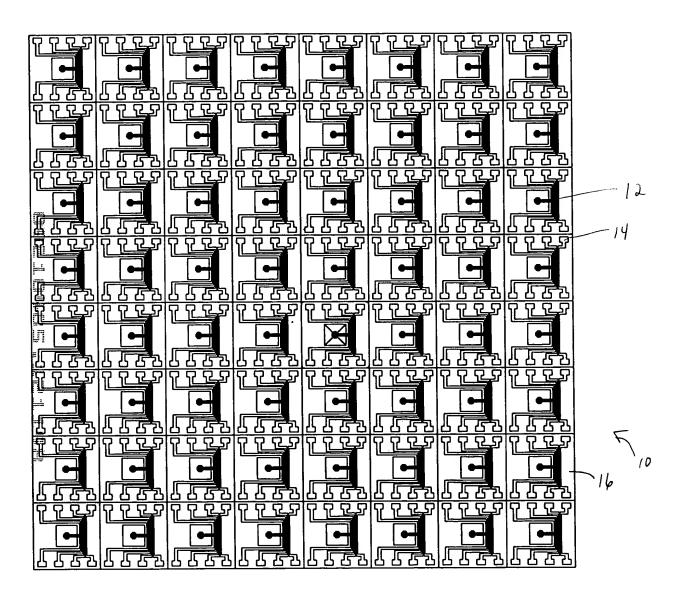
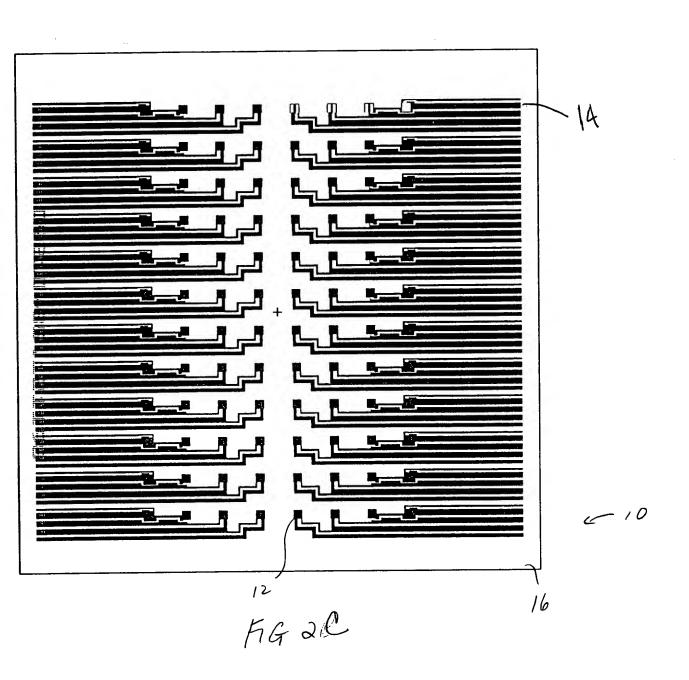


FIG 2B.



(1,1) (2,1)

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FIG 2D

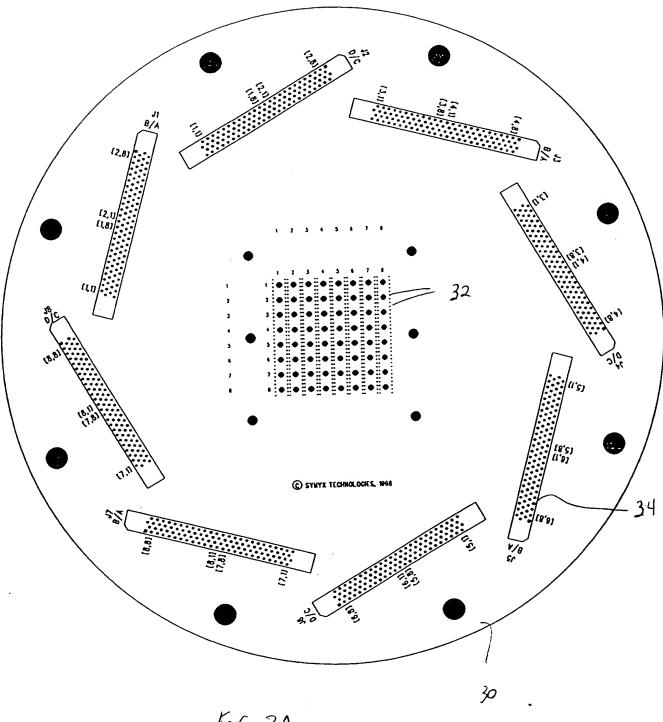
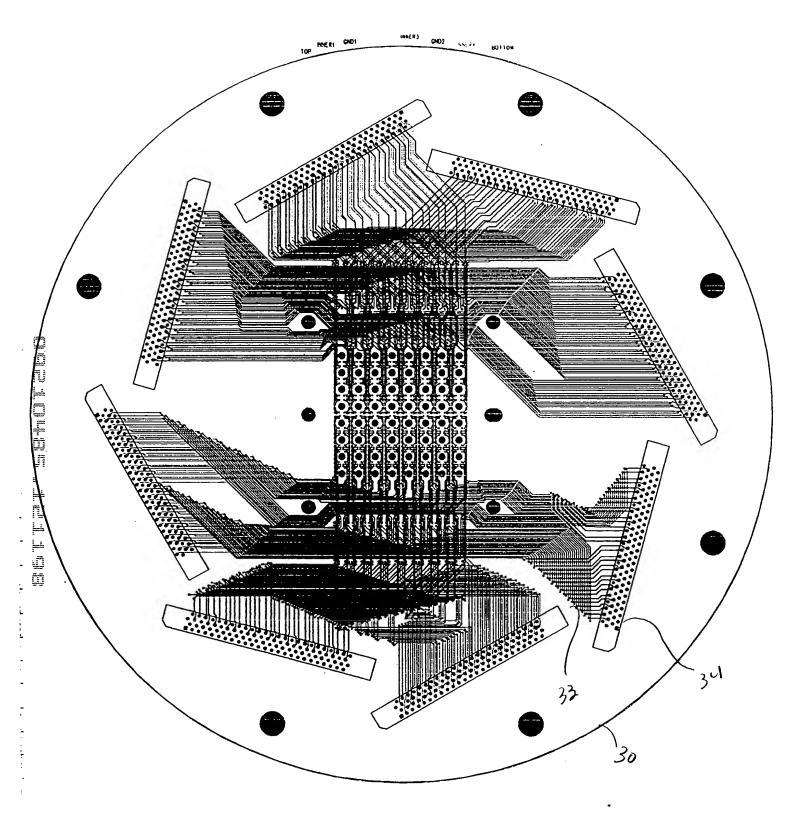
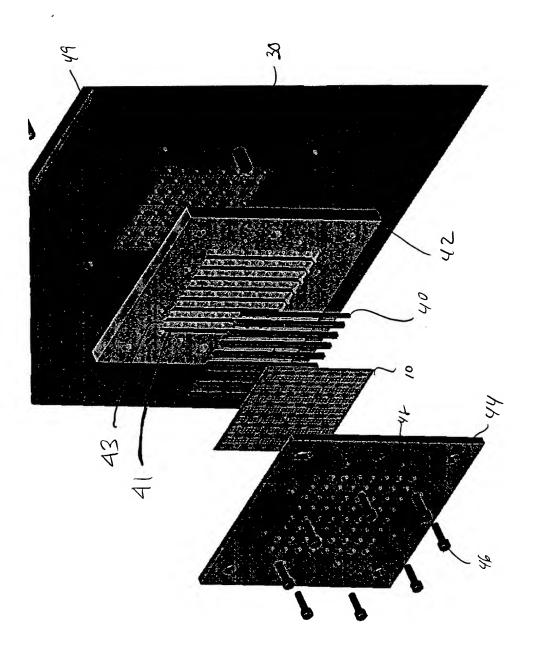


FIG 3A



F16 3B



H6 H

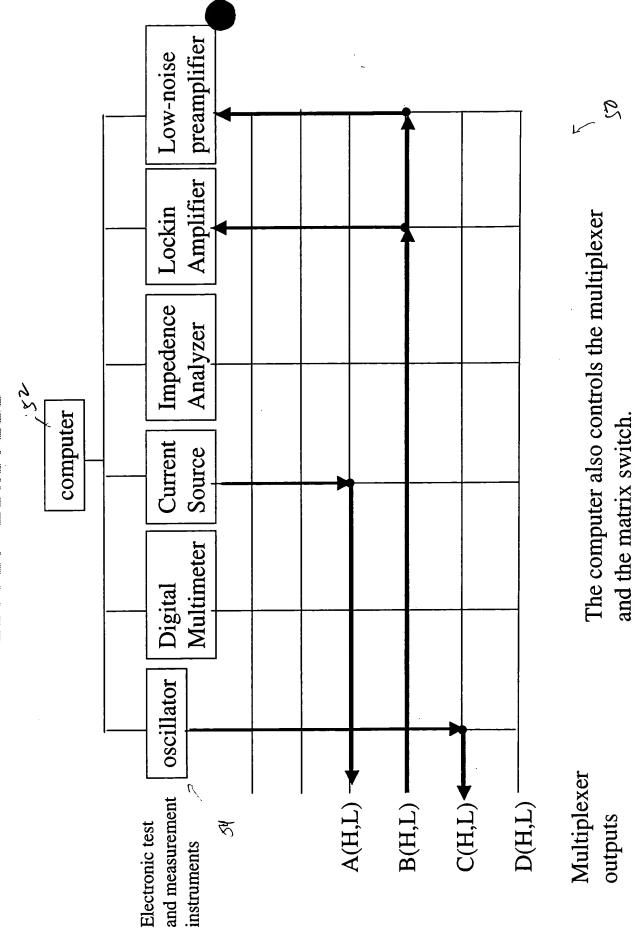
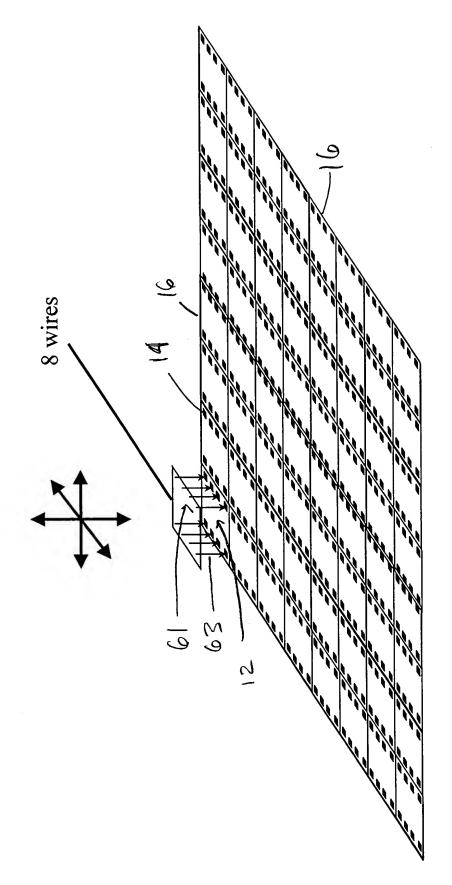
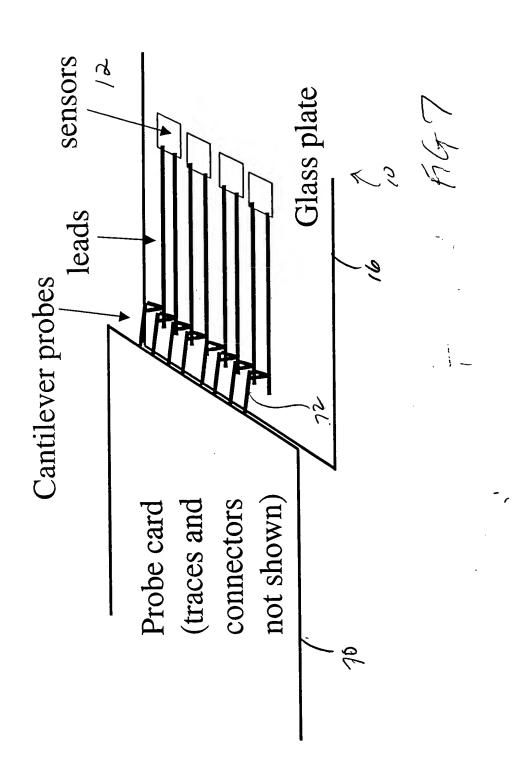
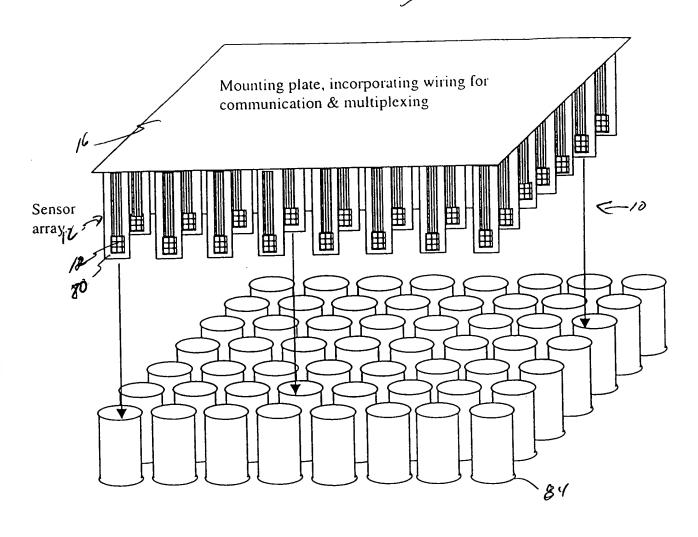


FIG S



FIFURE 68



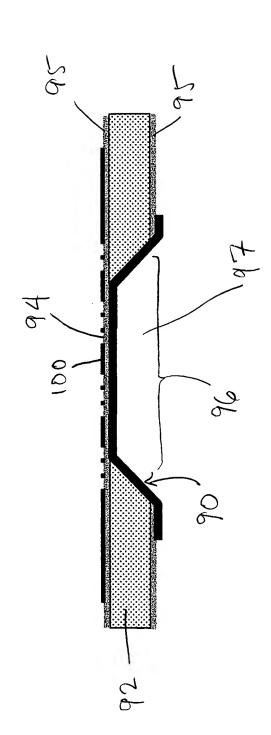


Array of vessels containing different solutions

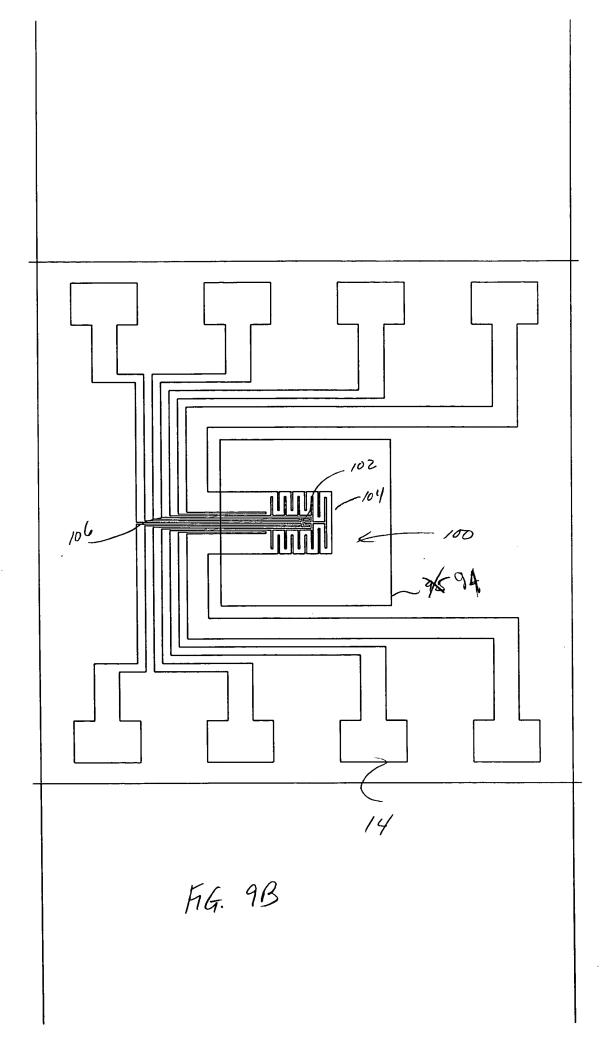
F14. 8

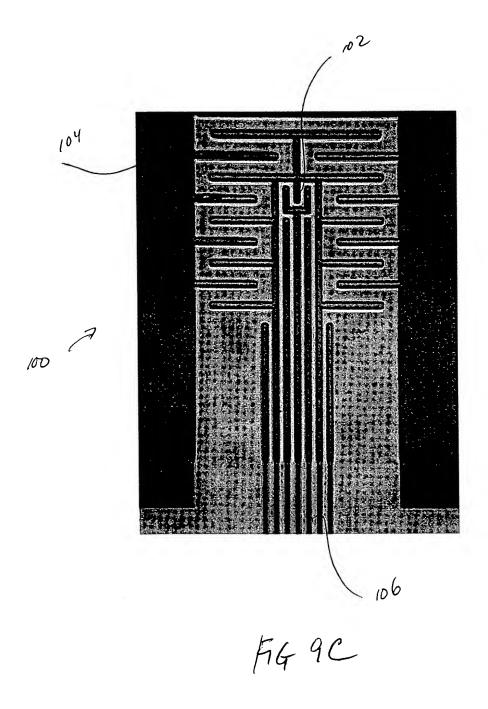
Measurements are made either 1) on solutions, using immersed sensors; or 2) on dried films deposited on the sensors by dipping, removing, and drying.

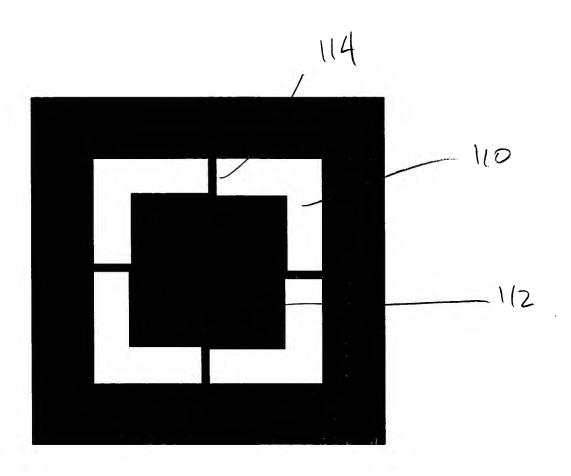
CONFIDENTIAL INFORMATION Symyx Technologies, April 13, 1998



F16.94







F16.10

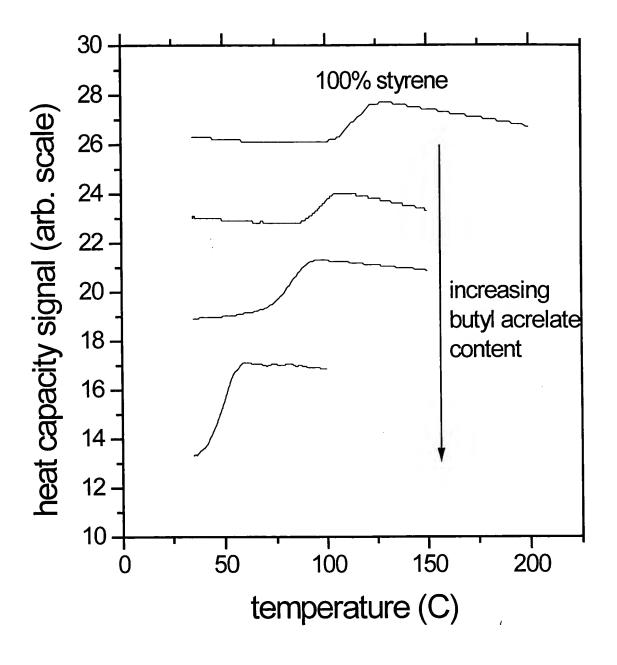
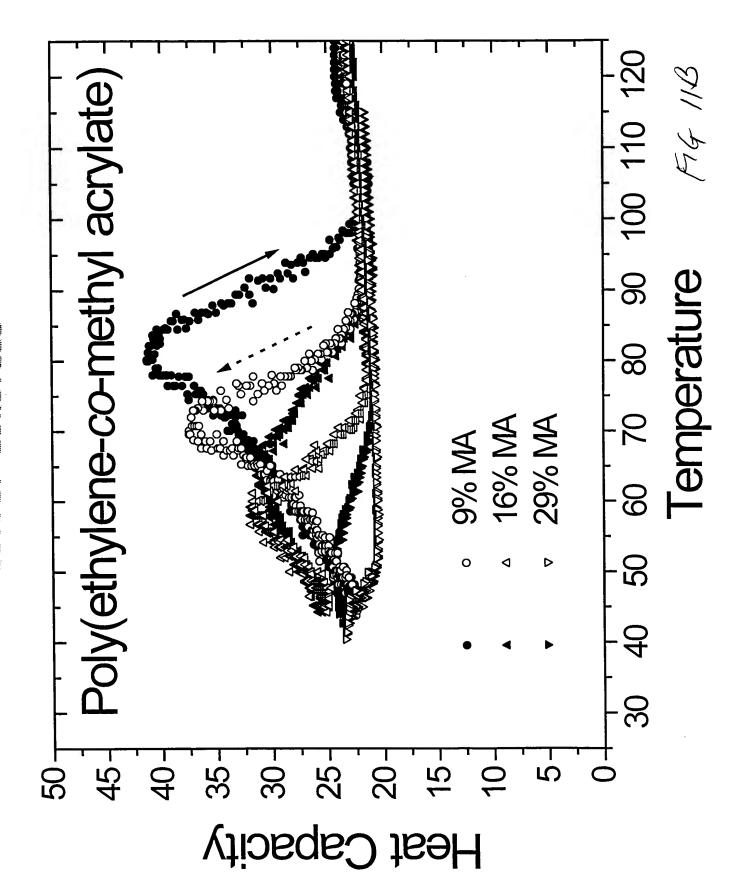
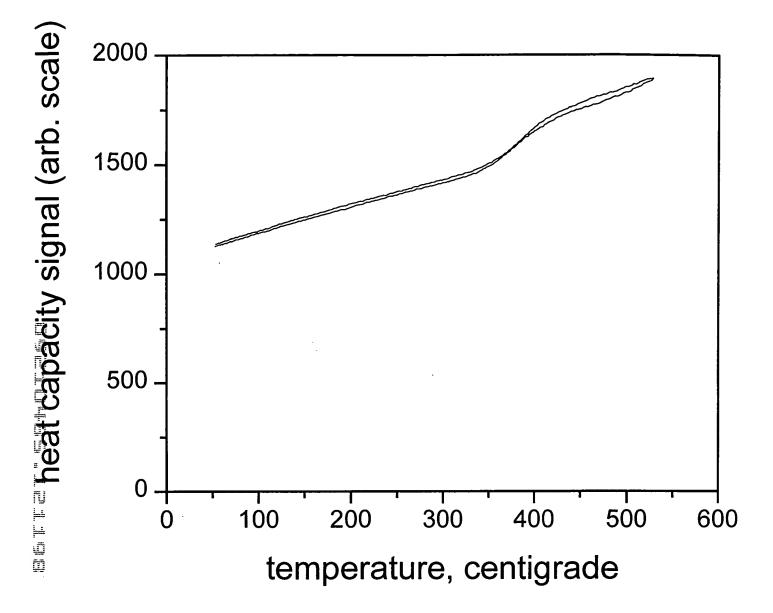


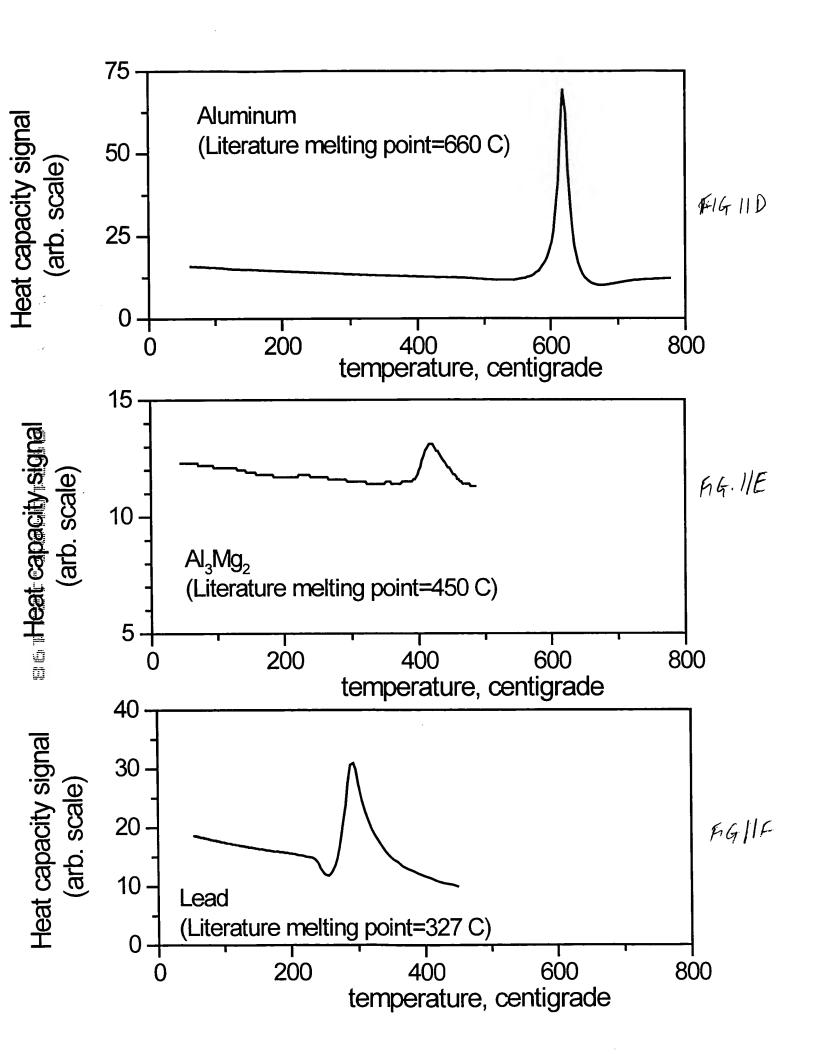
FIG 11A

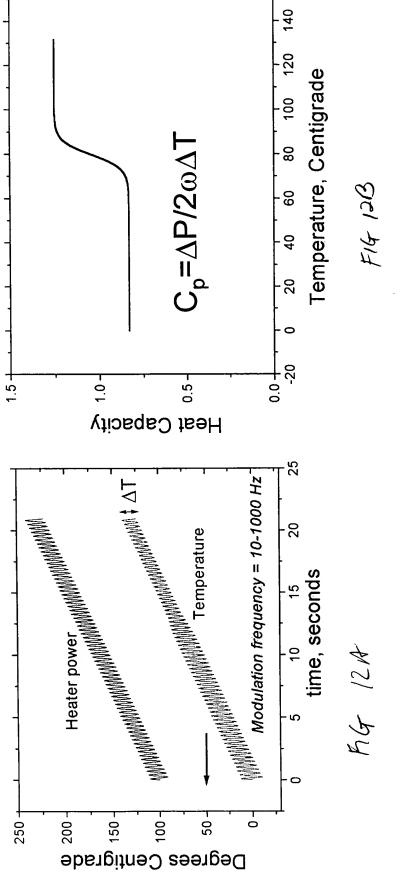




Glass transition in a thin film of low-Tg silica solder glass

FIG //C





Summing amplifier

DC current

Lockin at

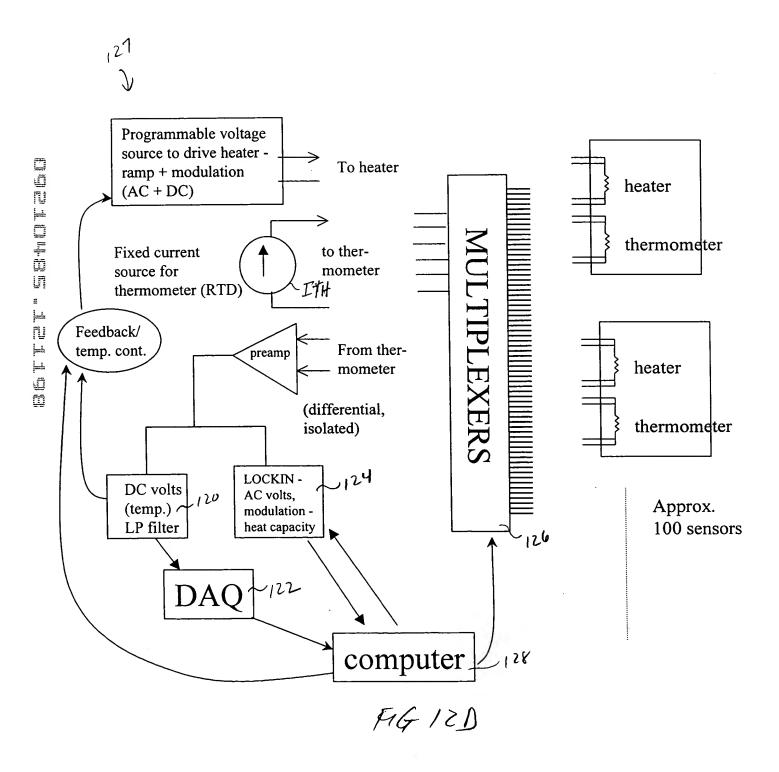
source

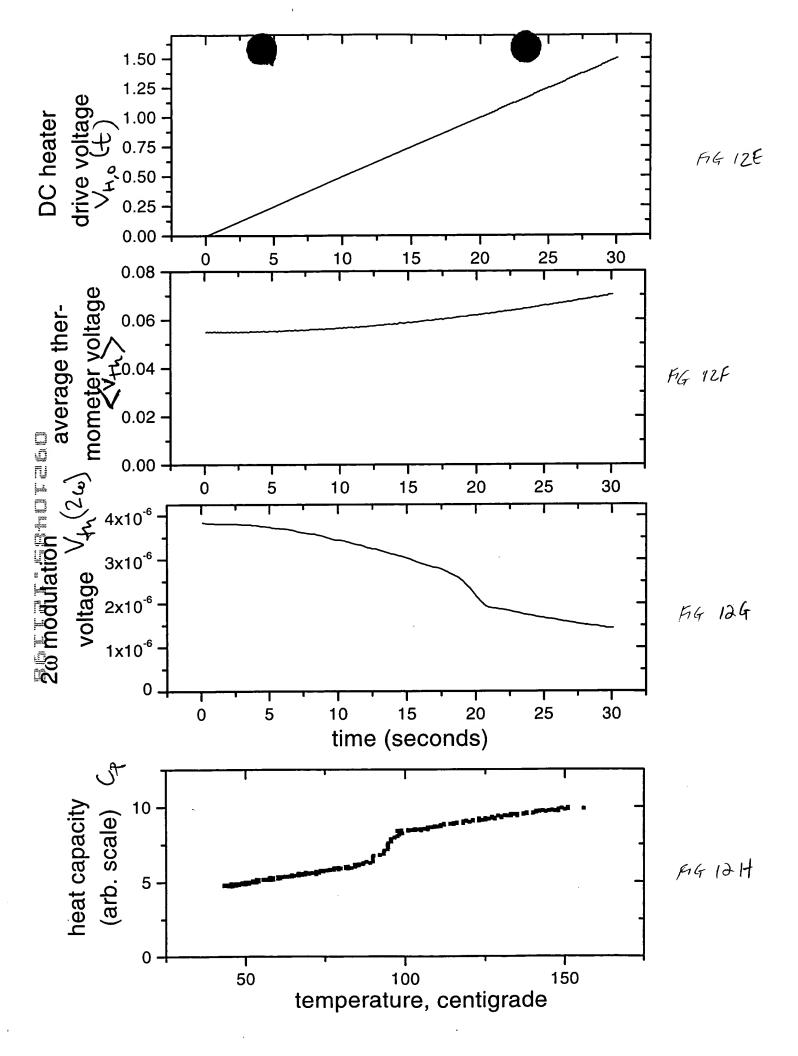
frequency 200

 $v_{\rm H}(t) = v \sin(\omega t)$ $V_H(t)$ (ramp)

Analog-to-digital converter with low pass pre-amplifier Differential filtering.

Heatrer thermometer





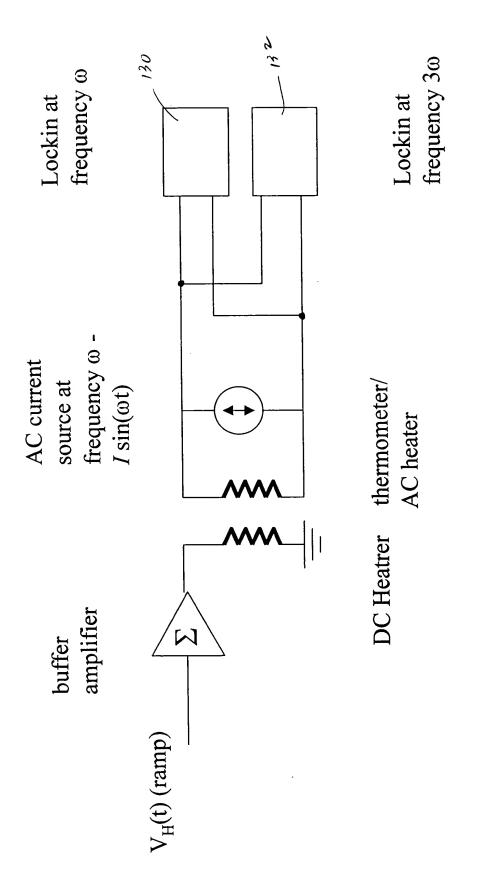
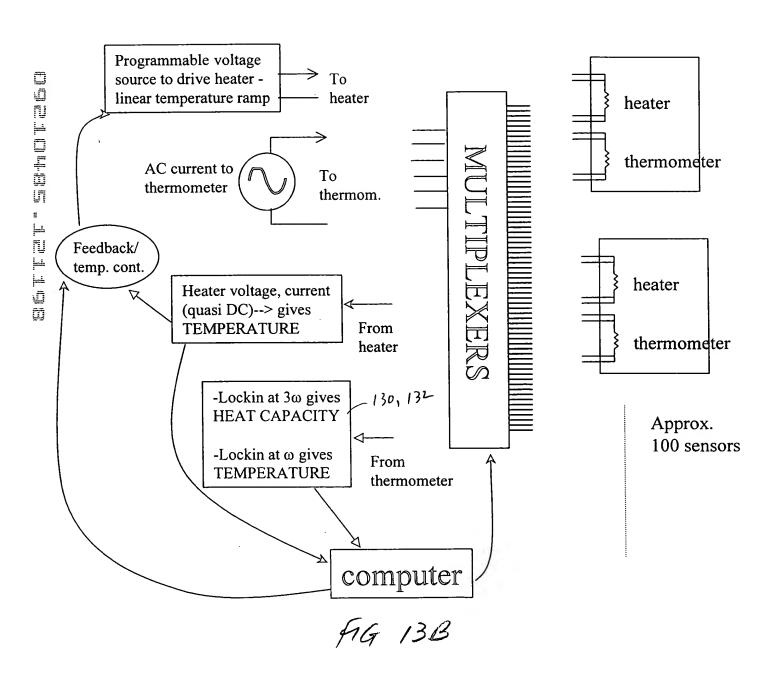
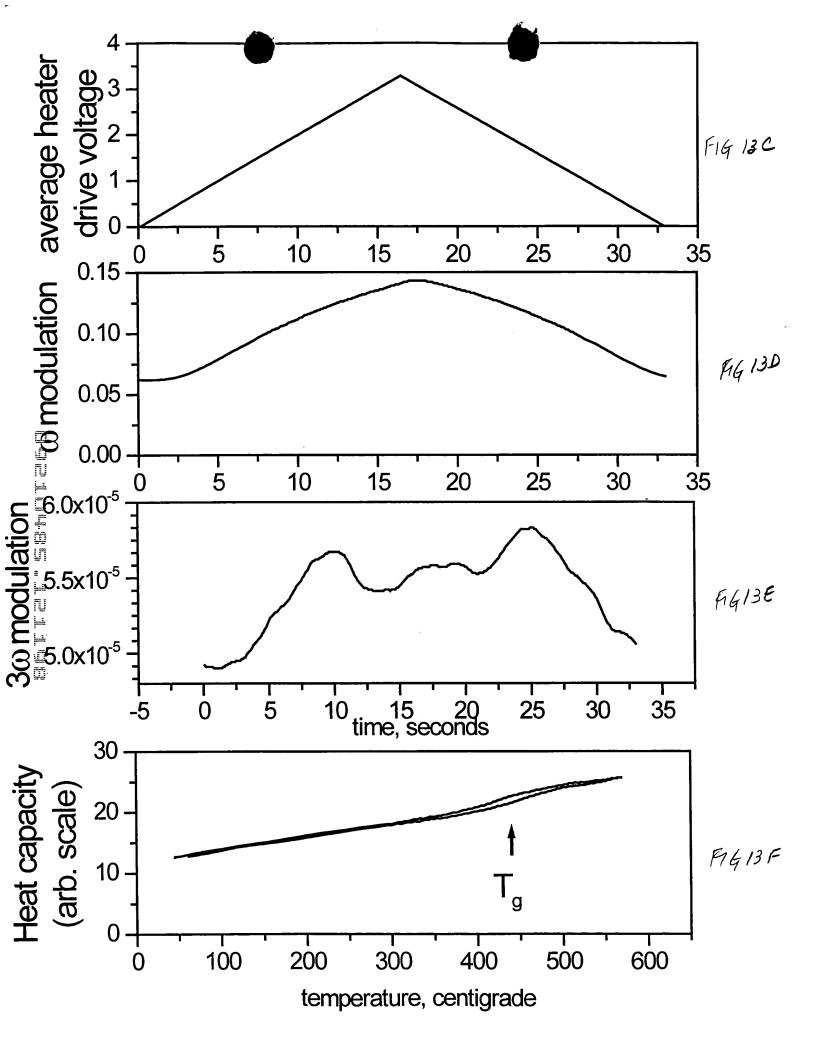
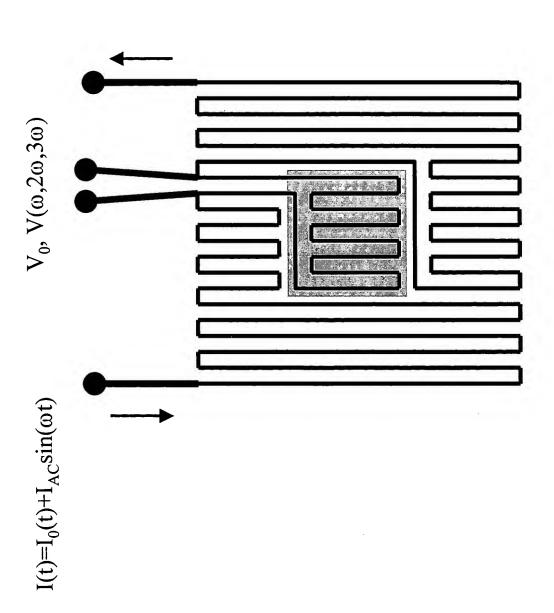


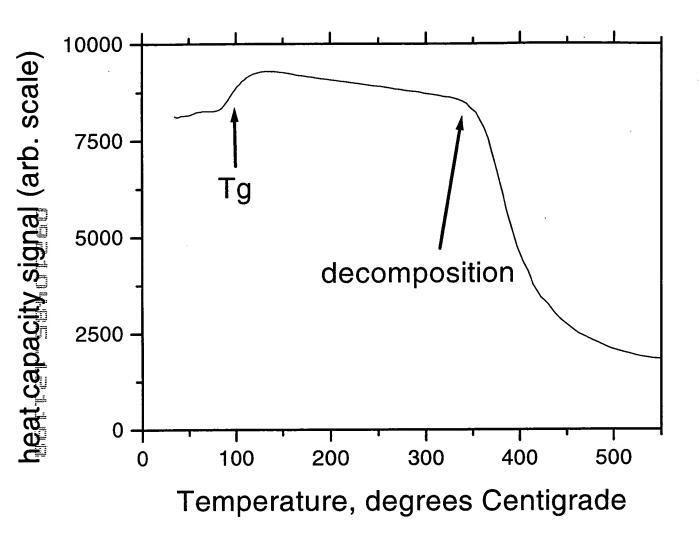
FIG 13A







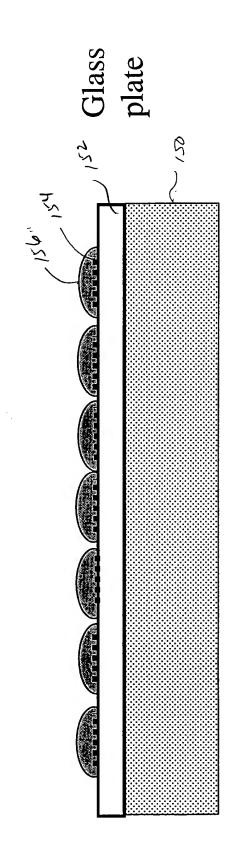
FLWRE 13G



Detection of glass transition and thermal decomposition of a polymer film

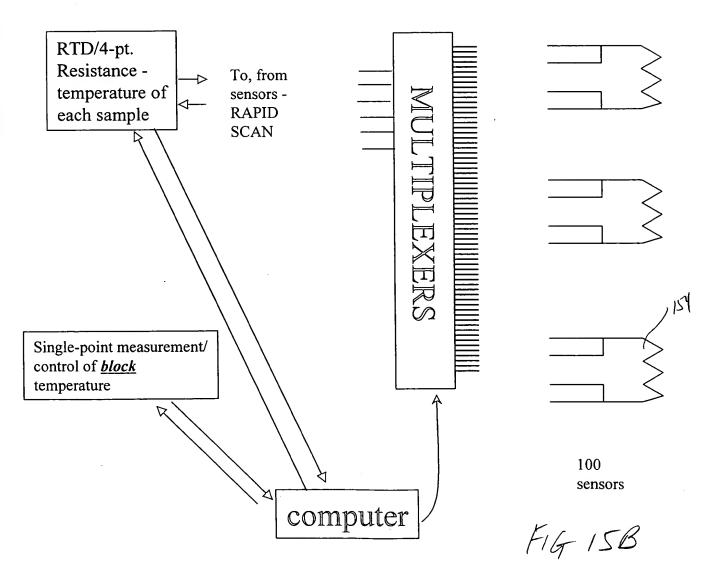
FIG 14

Sensors/samples at temperatures Tij



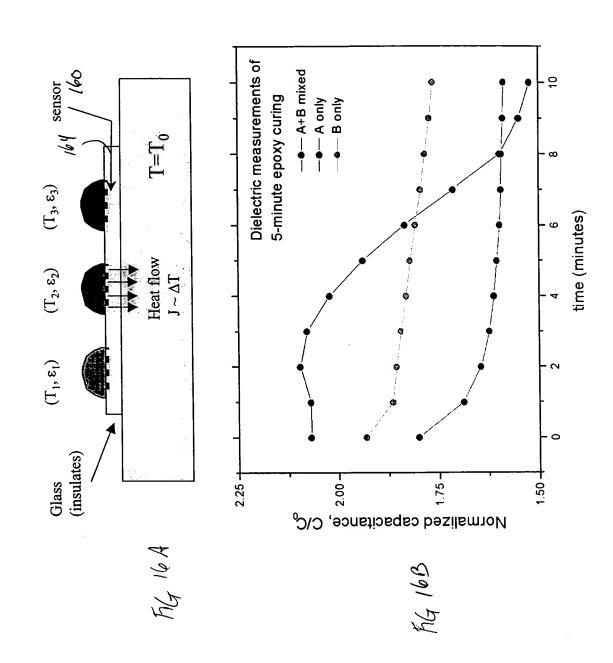
Block at temperature T0

FG 15A



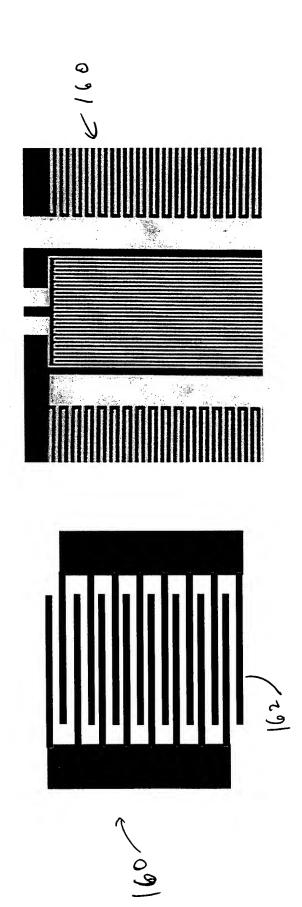
- Temperature/exotherm

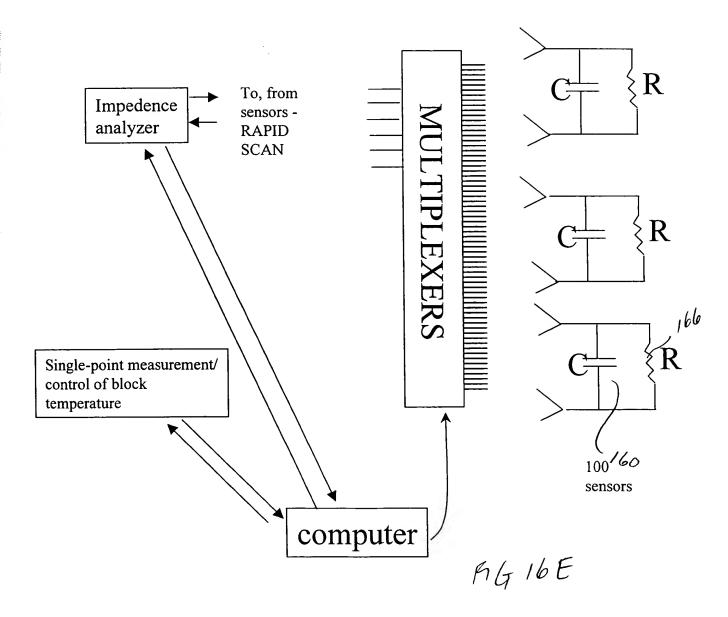


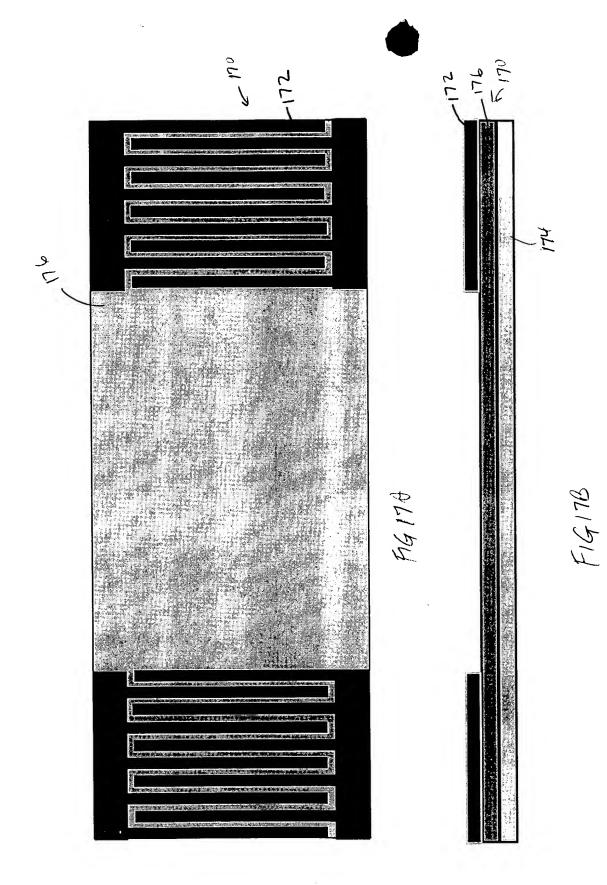


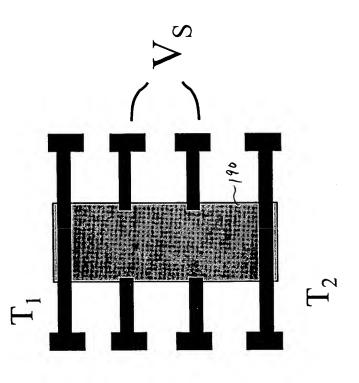
(P)

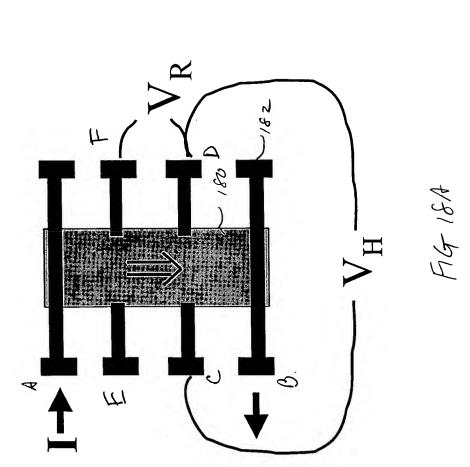
716.16C



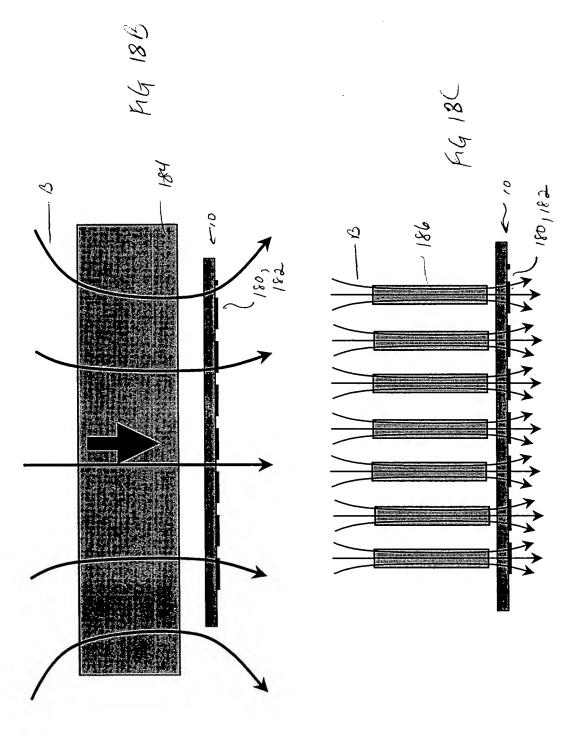


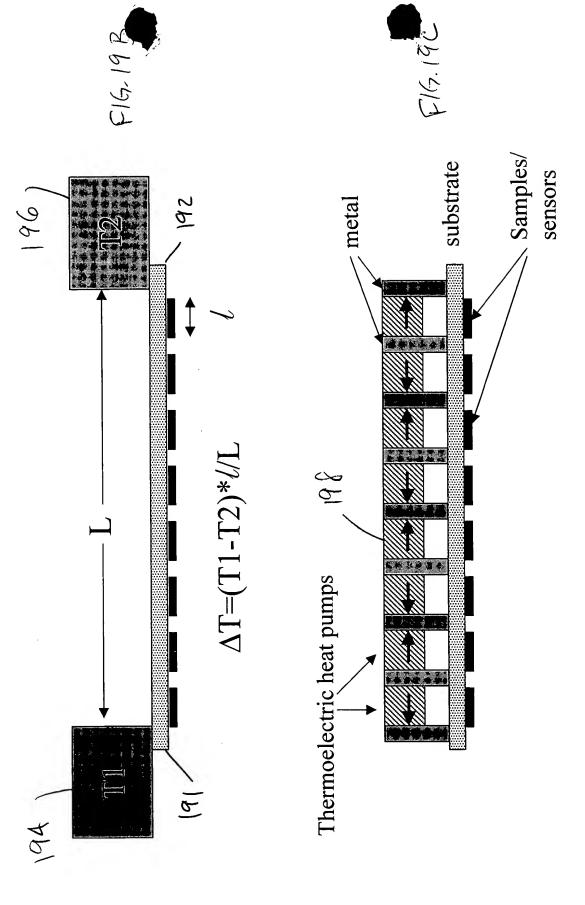




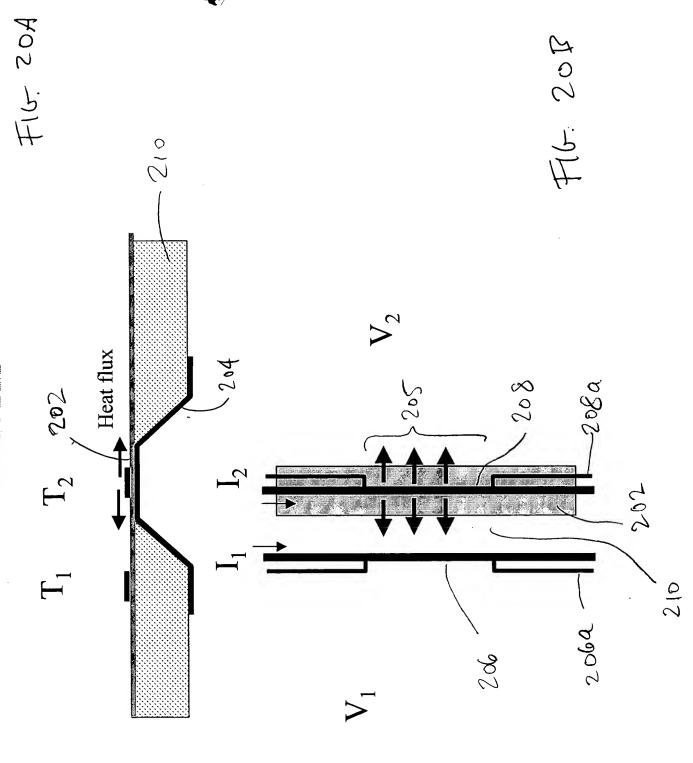


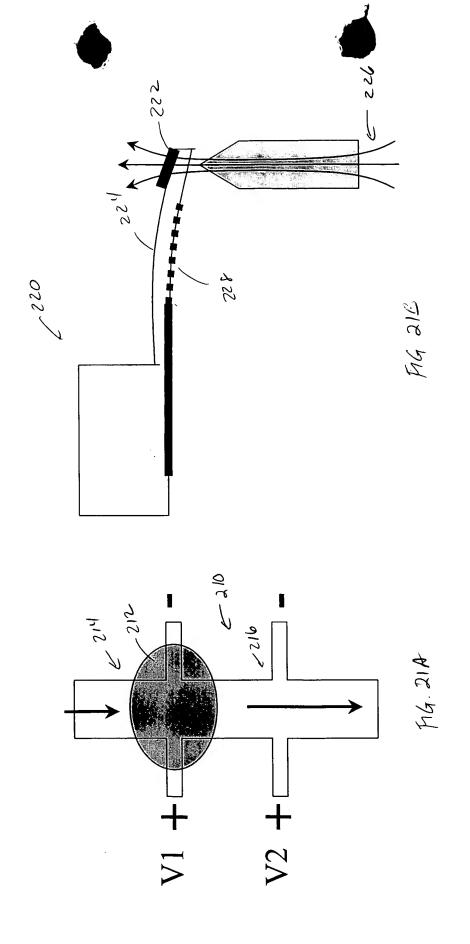
FG 194





Note - electrical contacts to sensors not shown.





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